

**IN THE CLAIMS:**

Please cancel claims 1-10 without prejudice or disclaimer and replace them with claims 11-30 as follows:

**Claims 1-10 (canceled).**

**Claim 11 (new):** An automated decoring system comprising a plurality of decoring devices, each having a frame formed as a fork having two prongs, the space between an adjacent pair of said prongs being arranged to receive a part to be decored, each of the decoring devices being enclosed in a chamber having only one loading door, the plurality of decoring devices being disposed in an operating locus of a loading robot for loading the part to be decored through a single face of the decoring device into the space.

**Claim 12 (new):** Decoring device of the decoring system according to claim 11, wherein the frame has a single space for receiving the part to be decored, the single space being located at one of the ends of the frame, four elastic suspension units with a substantially vertical axis and that are transversally distortable supporting the frame, each suspension unit being integral with a base, the frame including two unbalanced motors with a substantially vertical axis for vibrationally driving the frame, each of the motors being attached to one side of the frame

in the vicinity of two of the elastic suspension units, one of the prongs of the frame carrying a device for tightening the part to be decored, said tightening device including a cylinder carrying a tightening plate for enabling the part to be decored to be tightly held between the plate and an inner surface of the other prong, the other two elastic suspension units being positioned so that the center of gravity of the loaded decoring device remains between attachment points of the four suspension units so that the other two suspension units substantially support the same mass.

**Claim 13 (new):** Decoring device according to claim 12, wherein the frame is substantially horizontal, the other two elastic suspension units being positioned in the vicinity of the space between the two prongs of the frame, the motors being arranged to revolve in the same direction and turn the frame about an axis located at the intersection between a middle plane of the motors and a transversal plane of the frame.

**Claim 14 (new):** Decoring device according to claim 13, wherein the space between the prongs of the frame has a bottom with an opening for facilitating tightening of the part to be decored and evacuating sand from the frame.

**Claim 15 (new):** Decoring device according to claim 13, wherein the prong of the frame includes an opening that does not

bear the cylinder, the opening receiving the end of at least one pneumatic hammer attached to at least one upright integral with the base for enabling the part to be decored to be hammered when the part is clamped within the frame for disintegrating the cores.

**Claim 16 (new):** Decoring device according to claim 15, wherein the space between the prongs of the frame has a bottom with an opening for facilitating tightening of the part to be decored and evacuating sand from the frame.

**Claim 17 (new):** Decoring device according to claim 13, further comprising two pairs of lateral springs with a substantially horizontal axis integral with the frame, and an upright attached to the base for enabling a match of the resonance of the frame.

**Claim 18 (new):** Decoring device according to claim 14, further comprising two pairs of lateral springs with a substantially horizontal axis integral with the frame, and an upright attached to the base for enabling a match of the resonance of the frame.

**Claim 19 (new):** Decoring device according to claim 15, further comprising two pairs of lateral springs with a substantially horizontal axis integral with the frame, and an

upright attached to the base for enabling a match of the resonance of the frame.

**Claim 20 (new) :** Decoring device according to claim 13, wherein the frame includes a body and a head having the two prongs of the frame, the head being integral with a rod passing through the body of the frame and being adapted to be driven in rotation about the axis of the frame by a motor.

**Claim 21 (new) :** Decoring device according to claim 12, wherein the frame is substantially vertical, the motors being arranged to turn in opposite directions and generate alternative translational movement of the frame along the axis located at the intersection, the middle plane of the frame and the transversal plane of the motors passing through the center of the motors.

**Claim 22 (new) :** Decoring device according to claim 21, further comprising at least a pair of pneumatic hammers attached to at least one upright integral with the base for enabling the part to be decored to be hammered on either side of the frame when the part is clamped within the space between the two prongs of the frame for enabling the cores to be disintegrated.

**Claim 23 (new) :** Decoring device according to claim 12, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 24 (new):** Decoring device according to claim 13, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 25 (new):** Decoring device according to claim 14, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 26 (new):** Decoring device according to claim 15, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 27 (new):** Decoring device according to claim 17, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 28 (new):** Decoring device according to claim 20, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 29 (new):** Decoring device according to claim 21, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.

**Claim 30 (new):** Decoring device according to claim 22, wherein the tightening plate carries an air propulsion system to help evacuate sand from the part to be decored.